

DESCRIPTION

PROCESS FOR PRODUCING 5-(2'-PYRIDYL)-2-PYRIDONE DERIVATIVE

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Continuing Data

This application is a 371 application of PCT/JP03/09316 filed July 23, 2003.

Technical Field

The present invention relates to a production method of a
5 5-(2'-pyridyl)-2-pyridone derivative. The 5-(2'-pyridyl)-2-pyridone derivative obtained by the present invention is useful as an intermediate for a therapeutic drug for nervous diseases (WO01-96308).

Background Art

15 Conventionally, as a method of producing a 3,2'-bipyridine derivative having an oxygen functional group at the 6-position, (1) a method comprising reacting a 2-alkoxypyridine derivative, wherein the 5-position is substituted by a boron atom, a tin atom and the like, with a
15 2-halogenated pyridine derivative in the presence of a palladium catalyst (WO2001-81310, US Patent No. 5,693,611), and (2) a method comprising reacting a pyridine derivative, wherein the 2-position is substituted by a boron atom, a tin atom and the like, with 5-halogenated 2-alkoxypyridine in the
20 presence of a palladium catalyst (WO2001-96308, WO2001-27112) are known.

Both the above-mentioned methods (1) and (2) are expensive and require use of a palladium catalyst whose waste liquid has a pollution problem, which inevitably increases the
25 cost, and cannot be employed industrially.

Disclosure of the Invention

It is an object of the present invention to provide a method capable of producing a 5-(2'-pyridyl)-2-pyridone derivative industrially advantageously.

30 The present invention relates to
[1] a production method of a 5-(2'-pyridyl)-2-pyridone derivative represented by the formula (VI)